

Claims

1. A subsea tubing hanger assembly for connection to a subsea tree of an oil or gas well, comprising:
 - 5 a tubing hanger having at least one control conduit;
 - a joint coupled to the tubing hanger;
 - a shroud coupled to the tubing hanger and surrounding the joint;
 - 10 at least one extension capillary tubing connected to the at least one conduit and extending between the shroud and the joint to a position exterior of the shroud; and
 - 15 a capillary tubing connector on the at least one capillary tubing exterior of the shroud to enable connection of the extension capillary tubing to a capillary tubing of the well.
2. The assembly of claim 1 wherein the joint is a pup joint.
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3. The assembly of claim 1 wherein a plurality of extension capillary tubings are connected to respective conduits of the hanger and which extend to a position exterior of the shroud and have a respective connector for connection to respective capillary tubing of the well.
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4. The assembly of claim 1 wherein the or each connector is in the form of a ferrule nut, autoclave or jam nut fitting.
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5. The assembly of claim 1 wherein the or each extension capillary tubing is connected to an anti-torque mechanism for at least reducing rotation of the extension capillary tubing when the capillary tubing of the well is connected to the connector.
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6. The assembly of claim 5 wherein the mechanism comprises a shroud plate located between the pup joint and the shroud and having an aperture for each of the extension capillary tubing to hold the extension capillary
5 tubing and prevent rotation of the extension capillary tubing to thereby prevent torque from being applied through the extension capillary tubing to the connection between the extension capillary tubing and the hanger.
- 10 7. The assembly of claim 6 wherein the extension capillary tubing has a cross-sectional shape at least at the location where the extension capillary tubing passes through the aperture of the shroud plate which matches the shape of the aperture to prevent rotation of the extension
15 capillary tubing relative to the plate.
8. The assembly of claim 7 wherein the cross-sectional shape is hexagonal, but other cross-sectional shapes or anti-torquing devices could be used.